

AMENDMENTS TO THE CLAIMS**WHAT IS CLAIMED IS: CLAIMS**

1. (Currently amended) A resonator comprising a shell (1) having a pole (2) held by a support rod (3), the shell (1) having an annular edge (4) defined by an inside surface (5) and an outside surface (6) that are geometrically similar and that extend around a common axis of revolution (R), wherein the resonator being characterized in that the inside surface (5) and the outside surface (6) are offset relative to each other along the axis of revolution in such a manner that the shell presents thickness (E) along the annular edge (4) that is greater than the thickness (e) that it presents in the vicinity of the pole.

2. (Currently amended) A resonator according to claim 1, wherein characterized in that the inside surface (5) and the outside surface (6) are in the form of spherical caps.

3. (Currently amended) A resonator according to claim 2, wherein characterized in that the spherical caps are close to being hemispheres.

4. (Currently amended) A resonator according to claim 3, wherein characterized in that the centers (C1, C2) of the inside surface and of the outside surface extend on either side of a plane (P) containing the annular edge (4).